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ABSTRACT:

The electric lamp comprises a lamp vessel (1) which is transparent to visible light and which accommodates a light source. At least a part of the lamp vessel (1) is covered with a light-absorbing coating (3). According to the invention, [said] the light-absorbing coating (3) comprises a network which can be obtained by conversion of an organically modified silane by [means of] a sol-gel process. The organically modified silane is selected from the group formed by compounds of structural formula $R^ISi(OR^{II})_3$, wherein R^I is an alkyl or aryl group and R^{II} is an alkyl group. Preferably, R^I is CH_3 or C_6H_5 and R^{II} is CH_3 or C_2H_5 . Nano-sized silica particles having a diameter $d \le 50$ nm may be incorporated in the network. The pigment is preferably chosen from the group formed by Fe_2O_3 , P-doped Fe_2O_3 , P-doped Fe_2O_4 , P-doped P